**Note:**  
This is the same problem as in **Light OJ – 1083- Histogram**. [Here](https://arunima1590.wordpress.com/2017/03/18/light-oj-1083-histogram-2/) is the link of my Segment tree.

But here the most important point to be noted that **in SPOJ**, the **Time Limit is 0.409 sec** where **in Light OJ** , the same problem has **Time limit of 2 sec**…. So there **in Light OJ**, the problem can be solved by **Segment tree** ( the way in which I had done that) with **O(nlogn)** time complexity. But here in SPOJ, the Segment tree solution will get **TLE** since the **O(nlogn)** complexity will cross the Time limit of 0.409 sec. So here, I have approached in **stack solution** which is of **O(n)**  **time complexity.**